

GCSE Combined Science: Trilogy (8464)
GCSE Combined Science: Synergy (8465)

Physics Equations Sheet

[Turn over]

1	(final velocity) ² – (initial velocity) ² = 2 × acceleration × distance	$v^2 - u^2 = 2 a s$
2	elastic potential energy = 0.5 × spring constant × (extension) 2	$E_e = \frac{1}{2} k e^2$
3	change in thermal energy = mass × specific heat capacity × temperature change	$\Delta E = m c \Delta \theta$
4	period = 1/frequency	$T=\frac{1}{f}$

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5	force on a conductor (at right angles to a magnetic field) carrying a current = magnetic flux density × current × length	F = B I !
6	thermal energy for a change of state = mass × specific latent heat	E = m L
7	potential difference across primary coil × current in primary coil	$V_{\rho}I_{\rho} = V_{s}I_{s}$
	potential difference across secondary coilcurrent in secondary coil	

Equations 5 and 7 are for Higher Tier only.

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